



PUBLIC WORKS 2014 ANNUAL REPORT

"To create community through responsive leadership and services for the citizens and visitors of the Apple Capital of the World."

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PUBLIC WORKS 2014 - A YEAR OF CHANGE

Welcome to the 2014 Public Works Annual Report. As you will see throughout the following pages, 2014 was another busy year in the world of Wenatchee Public Works. We continued the core mission of planning for, constructing, operating and maintaining the public infrastructure for which we are responsible. Additionally, 2014 was a year of change in the Public Works Department and probably the first of many. We said goodbye to several of our long term employees as the next wave of retirements is lining up over a few years to drastically change the face of our department. Early in the year, longtime treatment plant operator **Jim Brumback** started the retirement wave followed by **Mike Cockrum** deciding to enjoy retirement after a long career in the Water Division, **Dean Fleming** took off to relax in Montana after time in both the Streets and Water Divisions and **Dan Patrick** decided to spend more time fishing after long stints in both the Street and Parks divisions. The entire department will miss the experience, professionalism and camaraderie of these four and wish them the best as they enter the next phase of their lives. Of course with retirements come promotions, lateral moves and new faces in the building. We are excited to see existing employees like **Tony Scherting** and **Dennis Smith** take on new responsibilities in Regional Water operations, relatively new employees **Paul Hessberg** and **Brian Smiddy** take up the challenge of moving from the Stormwater crew to working on the Water crew and Engineering staff members **Matt Leonard** (Operations Manager) and **Jenn Saugen** (Asst. City Engineer) moving into new and exciting roles. And finally this results in the addition of new faces such as **Matt Hatmaker** (Stormwater), **Andy O'Kelley** and **Erick Bradford** (streets), **Charlotte Mitchell** (Engineering) and **Jerred Gardner** and **Jason Browning** (Parks). It's good to have you all on board and we look forward to years of great work together.

Another change that we started to experience late in 2014 and have continued to see into 2015 is that the extreme financial crisis of the past several years has eased and as a result we have begun the process of restoring the budgets and staffing levels of all of our divisions. The 2015 budgeting process was perhaps the least painful in recent memory and the Public Works Department was successful in obtaining funding for a Traffic Engineer as well as additional Utility Workers in both the Parks and Street divisions. This is something new for us and the ability to accomplish some of the work that we have wanted to for so long is a very satisfying feeling. Although we are not out of the woods yet, the prudent financial policies and financial sustainability efforts of the Mayor and City Council have given us a reason to look forward to better days yet to come.

Speaking of financial sustainability, early in 2014 the Mayor assembled a committee of local leaders to explore what efforts that the City should pursue in order to achieve a healthier long-term financial picture. Among the list of strategies endorsed by this committee, was the recommendation to annex the Olds Station area into the City and to pursue consolidation of the City Fire Department and the Chelan County Fire District #1. The proposed annexation, which was submitted to the Assessor for validation in December, will necessitate an evaluation of Public Works' ability to provide services to the new area and to plan what enhancements to our personnel and programs will be necessary to meet expectations. This type of expansion is typical for most cities and provides a larger population to support the public services that the City provides. This bodes well for the continued recovery of our ability to provide cost effective and quality service for our citizens.

So take a look at what we have accomplished in the past year, our goals for 2015 and the people who are working to make the experience of the Citizens and Visitors to our City a positive one.



New crosswalk treatment as part of the Downtown Revitalization

~Daniel Frazier, Public Works Director

North Wenatchee Avenue Preservation Project:

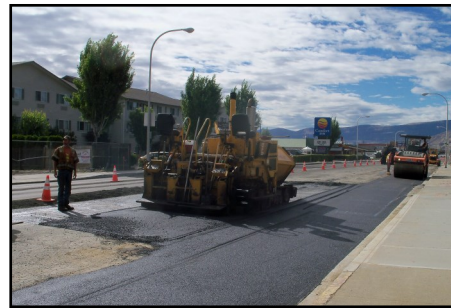
The section of North Wenatchee Avenue between Downtown Wenatchee and Miller Street was last resurfaced in 1998. This area was overdue for a project to preserve and extend the life of the pavement.

The project included:

- Grinding and repaving the roadway from 5th Street to Miller Street
- Upgrade sidewalk curb ramps to meet federal Americans with Disabilities Act (ADA) standards
 - Upgrade traffic signals at Fifth Street and Ninth Street
 - Installation of new plastic pavement marking
 - Work to rehabilitate the storm sewer system
 - Replacement of a failed section of water line



Above: Sidewalk cement work
Right: Water line replacement



Left:
Repaving
the roadway



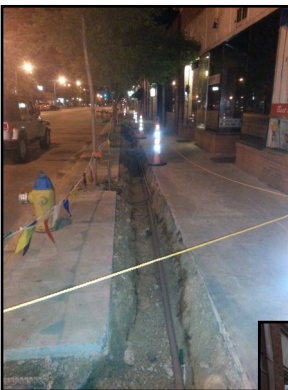
Grinding the roadway at Fifth Street

Downtown Revitalization Project:

The project began soon after Apple Blossom with the majority of the work being performed at night to help minimize the impact to the downtown businesses. This section of the avenue was also overdue for paving work as it has not been treated since the streetscape project of 1989.

The project included:

- Grind and repave the traveled lanes from Kittitas to Second Street
- Rehabilitation of the sewer system utilizing CIPP (Cured In Place Pipe) trenchless technology for existing mains
- Installation of fire lines to accommodate future conversion on upper stories of downtown buildings
 - Install traffic calming islands and signing to remove trucks from the downtown pedestrian environment
 - Install artwork on Orondo Ave near Columbia Street
 - Install new crosswalk treatments
 - Upgrade ADA curb ramps to current standards
 - Rehabilitation of the irrigation system
 - Rehabilitation of the electrical system
 - Traffic signal improvements at Wenatchee Avenue and Orondo Avenue



New crosswalk treatment



Above: Replacing
conduit at night
Right: New electrical
service cabinet



Above: Traffic island
at Second Street



Left: Traffic island at
Kittitas Street

ENGINEERING ...

The Engineering Division designs and inspects the structural integrity and safety of municipal infrastructure such as streets, sidewalks, water supply networks, sewers, street lighting, public parks, bicycle and walking paths.

2014 Accomplishments:

- Completed North Wenatchee Ave. Preservation, 5th to Miller
- Completed installation of plastic pavement markings on Miller, from Springwater to the southern city limits
- Installed 105 countdown pedestrian signal heads on SR 285
- Completed Downtown Revitalization Project
- Replaced 374 street name sign and 114 school zone signs
- Completed mandated Sign Retroreflectivity Verification
- Secured the extension of the Transportation Benefit District to 2030
- Design development of Okanogan/Red Apple SRTS (Safe Routes to Schools) project, Western Ave. Improvements project and new signal at McKittrick and Wenatchee Ave.
- Continued design development of GIS Database Improvements. Implemented and provided GIS tools and support for streets, water, sewer and storm utilities
- Further identified ADA legal requirements in the right-of-way
- Provided Development Review and Inspection for subdivisions, commercial, and residential projects
- Provided permit review and inspections of utility purveyors
- Processed approximately 20 parade/event permits
- Performed traffic counts at various intersections
- Freight Route Study completion/adoption
- Bicycle Detection Compliance

2015 Goals:

- Completion of GIS needs assessment
- Pavement Preservation Program update and funding options for 2015 and beyond
- Self-Assessment and Transition Plan Update for ADA compliance in the right-of-way
- Continue development of sidewalk hazards inventory and remediation program for risk reduction
- Okanogan/Red Apple Road SRTS Construction
- South Chelan St. Sidewalk Project Construction
- Mission/Miller and Chelan/Miller Intersections improvements project construction
- Mission & Crawford water and storm water improvements project construction
- Development of Street Name and Freight Route signing replacement and upgrades
- Development of new McKittrick St. improvement project from Wenatchee Ave. to Pine St.
- Continued development of Western Avenue Improvements project, McKittrick/Wenatchee Ave. signal project, and SR285 Safety Improvements Phase 3 Including new 2014 HSIP (Highway Safety Improvement Program) funding
- Adopt Engineering Standards for Water, Sewer, Electric, Street, Storm

FACILITIES...

The Facilities Division is the internal support for the City buildings. This division is crucial as it keeps the buildings up to date and operating smoothly, allowing all the employees to do their jobs.

2014 Projects and Routine Maintenance:

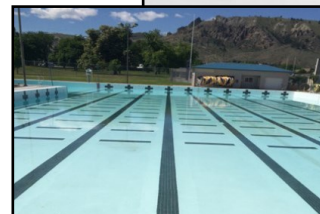
- Cleaned and painted the entire pool along with tile work, concrete repairs, and getting the boiler running for the season
- Setup the power in Memorial Park for the Apple Blossom Festival food fair and vendors
- Completed roof repair projects at several City facilities
- Repaired ADA Compliance deficiencies identified in the Civil Rights Audit done in 2013
- Repairs to the Museum that were identified in the 2014 Reinsurance Audit
- Installed an auto-eject charging system for patrol vehicles at City Hall
- Maintained 284,792 square feet of buildings city-wide by providing HVAC work, plumbing, lighting, carpentry and general facility repairs

Looking Forward to 2015:

- Replace the roof at City Hall
- Rehabilitate the restroom floors in City Parks
- Complete inventory of the Convention Center
- Rehabilitate the Convention Center Fountain
- Complete energy upgrades at the Convention Center, repair the roof and remodel the interior of the elevator #1 cab



Replacing the HVAC motor at City Hall



*Above:
Working on
the City Pool
Left:
Ready for
the season*

STREETS...

The Street Maintenance Division has the responsibility of maintaining the City's streets, alleys and publically maintained sidewalks. This maintenance also includes snow removal and ice control on all City streets and along the sections of the state highways that run through the City.



Above and Right:
ADA compliance
work at the
Community Center
Below: installing
grated manhole lids



2014 Projects and Routine Maintenance:

- Installed bolt down grated manhole lids in several problem areas where the lids blow off during strong storm flows
- Rehabilitated the Linden Tree stormwater facility by removing overgrown vegetation and 500 cubic yards of storm debris
- Achieved compliance with new ADA standards at some City owned facilities
- Set up road closures for the Apple Blossom Festival and for other parades and public events, approximately 20 events yearly
- Fixed a sink hole that was 4 foot deep by 30 feet long in the 400 block of Fifth Street
- Maintained traffic signs, both regulatory and informational
- Installed approximately 350 new street name signs
- Completed bringing all public school zone signing into compliance with MUTCD (Manual on Uniform Traffic Control Devices), which included installing or relocating approximately 80 signs and poles
- Pulled out sidewalks for property owners replacing hazardous walks
- Swept over 250 miles of roads
- Painted 425,000 linear feet of pavement markings
- Crack sealed many City streets using 10,000 pounds of crack seal material
- Maintained stamped concrete crosswalks

Looking Forward to 2015:

- Substantially more paving and concrete work than the last few years
- More aggressive spray program for vegetation control
- Install additional street name and regulatory signs
- Replace about 80 catch basin lids with directional style veined lids to help direct stormwater flows in areas that were affected by the flood events in 2013



Approximately
3,000 cubic
yards of material
was screened
and reused
during the 2014
construction
season

SIGNALS AND LIGHTING ...

The City's lighting technicians maintain the City signals and street lights.

2014 Projects and Routine Maintenance:

- Rewired signal at 9th & Miller as well as relocated the signal
- Implemented the City's first flashing yellow arrow configuration
- Completed school beacon upgrade which included building a radio network for communication to each beacon, replacing old radar feedback signs with new blue tooth connectivity signs and updating the flashing beacons
- Installed 114 countdown pedestrian displays on Chelan and Mission
- Maintained 2,000 street lights, with nearly 600 lamps being replaced annually
- Maintained 50 signal systems, including yearly cabinet maintenance
- Repaired defected lighting circuits
- Conducted yearly malfunction monitor (MMU) testing
- Assisted inspection process on numerous City projects involving signal and electrical contract work



New school beacon

Looking Forward to 2015:

- Signal cabinet replacement and controller update at Maiden Lane & Wenatchee Ave.
- Flashing yellow arrow modification for the signal at Washington & Miller
- Rewire 1st and Mission signal due to underground cabinet deterioration
- Replace 114 high pressure sodium globe fixtures with decorative LED fixtures on Wenatchee Ave.
- Implement twice a year signal maintenance, up from current yearly schedule
- Continue yearly maintenance and MMU testing

PARK MAINTENANCE & CEMETERY ...

The Park Maintenance Division has the responsibility for the daily operation and maintenance of the City's park system.

2014 Projects and Routine Maintenance:

- Maintained the landscaping at 13 parks, 7 City facilities and at the City's water reservoirs and pump stations. This includes mowing, weeding, pruning and maintaining the irrigation systems. Operation of the parks also includes daily garbage removal, opening and cleaning the public restrooms.
- Assisted cemetery staff with the maintenance and care of the cemetery, including the trimming of over 18,500 memorial markers twice a year which takes the full crew 4 weeks to accomplish
- Planted and maintained over 100 floral baskets for the downtown area
- Sprayed broadleaf herbicide on all city parks
- Added ground covering to the play equipment to ensure safety standards are met
- Maintained the streetscape along Columbia Street, Walla Walla Avenue, Riverside Drive, Walnut Street, Pierre Street and Wenatchee Avenue
- Performed pest control on the over 300 trees along the downtown arterials which is done by drench rather than spraying for public safety
- Snow removal and ice control for the park walkways, at the City's buildings and the downtown crosswalks



Fertilizing the cemetery and spraying for weeds - in anticipation of Memorial Day



The Cemetery on Memorial Day

Looking Forward to 2015:

- Update landscaping at entrance to Lincoln Park
- Finish landscaping at Washington Park
- Add new landscaping to Public Services Center on McKittrick Street

The Cemetery:

The cemetery staff is responsible for the sales of burial plots and cremation niches, sales of burial containers and memorial markers, coordination of burial arrangements with local funeral directors and grave site opening and closing services. The facility has been averaging nearly 200 services per year. The cemetery staff is also responsible for the grounds maintenance of the entire 34 acre site, as well as the Home of Peace mausoleum on Miller Street.

FLEET ...

The Fleet Division is the internal support for the City. This division is crucial as it keeps the equipment operating smoothly, allowing all the employees to do their jobs.

2014 Projects and Routine Maintenance:

- Facilitated the procurement and prepared for service the following vehicles: 3 new police vehicles, a sweeper, a grader, a flusher/de-ice truck and an air compressor
- Purchased and installed 2 new plows and 1 new sander
- Fire engine (3-6 the ladder truck) received a major overhaul
- Provided service and routine maintenance on a fleet of nearly 200 pieces of equipment
- Provided service to hand tools like weed eaters, push mowers and any other equipment needed by other departments



In the shop: Fire Engine 3-6, a sweeper and the new sander



Lynn working on part of the sweeper

Looking Forward to 2015:

- Purchase and set-up: 4 new police patrol vehicles, 2 new police administration cars, 2 - 1 Ton trucks, a sweeper, a backhoe/loader, a paver, 2 pickup trucks and 2 SUVs
- Repurpose a used water service truck to be a mechanic's service truck
- Participate in the Wenatchee Valley College Internship Program
- Defend their first place finish in the APWA Top Tech Challenge at the fall APWA Conference

WASTEWATER ...

The wastewater treatment plant operates 24 hours a day, seven days a week to treat the approximately 3 million gallons of wastewater a day. Pollutants are removed through mechanical and biological processes that are managed by certified wastewater operators under a permit issued by the Washington State Department of Ecology. The Wastewater Division staff also manage the City's biosolids program and maintenance of the sewer collection system which consists of 5 lift stations and over 140 miles of sewer mains.



Above: Hauling the biosolids from the WWTP to the drying beds to begin the treatment process



Above: The final biosolid product being spread as fertilizer on a feed crop

2014 Projects and Routine Maintenance:

- Completed NPDES (National Pollutant Discharge Elimination System) Permit Renewal Application
- Finished the Wastewater Treatment Plant Odor Control, Visual Mitigation and Headworks Screening Project
- Completed the second round of priority pollutant testing for the Department of Ecology
- Processed and hauled first 2 batches of Class A biosolids using the new EPA approved method "Wenatchee Biosolids Treatment Method"
- Kicked off the process for the Wastewater Facilities Treatment Plan Update, which is a plan that looks ahead to upcoming changes through 2035
- Assisted the stormwater utility with stormwater collection system maintenance

Looking Forward to 2015:

- Complete NPDES permit renewal process and implement new permit
- Complete gas piping rehabilitation
- Clean and inspect 33% of the sewer collection system

ENVIRONMENTAL ...

The Environmental Division is responsible for implementing utility programs and helping to insure that the City's water, wastewater and stormwater utilities stay in compliance with federal and state regulations. The Environmental Division oversees the following utility programs: cross connection control, wellhead protection, water use efficiency, water quality monitoring, stormwater pollution prevention, and pretreatment.

2014 Accomplishments:

- Collected samples for Phase 3 of the Unregulated Contaminant Monitoring for the Environmental Protection Agency
- Drinking water system sampling: Collected 300 routine bacteria samples, 16 disinfection by-product samples, 1 Nitrate, 1 volatile organic carbon and 30 Lead and Copper samples to maintain compliance with the Department of Health
- Participated in 5 Public Education and Outreach Events, in addition to providing science activities for the after school programs at Mission View and Columbia Elementary schools—this will be an ongoing partnership
- Prepared 5 annual reports, in addition to monthly reports, for state agencies to stay in compliance with our utility operating permits
- Complete revisions to the IDDE (Illicit Discharge Detection & Elimination) program and the enforcement policy
- Provided Wellhead Protection Education & Outreach
- Performed over 250 Pretreatment Inspections
- Completed 471 cross connection control surveys
- Investigated 20 Water Quality Concerns



Above: Students touring the WWTP and using the microscope in the WWTP Lab



Left: Students making slime with the after-school program

Looking forward to 2015:

- Update the Emergency Response Plan for the drinking water utility
- Update industrial user database & conduct pretreatment surveys
- Complete revisions to the construction and post-construction elements of the stormwater program

WATER UTILITY ...

The primary job of the water crew is to provide clean drinking water to our residents 24 hours a day 7 days a week by keeping the City of Wenatchee's water utility operating smoothly. In addition to our utility, the City of Wenatchee performs the daily operation and maintenance of the Regional Water System, which provides drinking water to all residents in the Wenatchee Valley.

2014 Projects and Routine Maintenance:

- Replaced the 10" cast iron water main at 9th and Wenatchee Ave.
- Replaced many outdated meters, especially the larger 1½ to 4 inch meters
- Inspected all 7,550 water meter chambers
- Replaced or reprogrammed over 500 of the radios which provide meter readings
- Inspected and serviced fire hydrants
- Maintained main-line valves
- Checked pressure reducing valves (PRVs) for leaks and pressure levels every week
- Visually checked the 4 main pumping wells, the 2 pump stations, the 4 reservoirs and the chlorination system daily
- Inspected the backup wells weekly and flushed them monthly
- Performed the annual visual inspection of the pipeline in the Odabashian bridge crossing



*Repairing a water main leak on
Rosewood*



*Repairing a water main
break on Worthen Street
on a Sunday night in
16°F weather*



Looking Forward to 2015:

- Replace the source meter at Regional
- Upgrade the power in the Regional building
- Move 9 water chambers and 2 fire hydrants for a sidewalk project near Okanogan and Red Apple Road
- Replace 190 feet of 12" ductile iron water main on Mission Street and 80 feet on Crawford Street
- Remove the PRV (Pressure Reducing Valve) in the middle of Crawford and Mission, a replacement PRV was already installed nearby in an area that is safer for staff to access

STORMWATER ...

The stormwater utility is operated and maintained by staff from multiple divisions within public works including Environmental, Engineering, Streets, Parks, Water and Wastewater.

2014 Accomplishments:

- 1387 inspections of stormwater structures and water quality facilities completed using GIS
- 6 water quality facilities maintained
- 251 stormwater structures cleaned
- 14 catch basins and manholes repaired
- Rehabilitated the Linden Tree stormwater facility
- 77 stormwater complaints investigated



*Above: Street Division rehabilitating the
Linden Tree stormwater facility*

Right: the Linden Tree facility in the spring



*Stormwater System
maintenance by City Staff*

Looking Forward to 2015:

- Field assess two high priority stormwater basins
- Clean catch basins identified as needing maintenance
- Update GIS database with outfalls and water quality facilities

CHANGES TO THE PUBLIC WORKS TEAM

When it comes to a large group of employees change seems to be the only constant. However, in 2014 the Public Works team had a larger than normal amount of change. With four retirements, a couple of promotions and getting the ok to fill some positions that had been vacant for a while due to budget cuts a game of musical chairs ensued. Congratulations to the retirees. Thank you for your years of service!

Retirements:

- Jim Brumback retired as a Wastewater Treatment Plant Operator after 21 years with the City
- Mike Cockrum retired as a Regional Water Operator after 31 years with the City
- Dean Fleming retired as a Utility Worker/Water after 16 years with the City
- Dan Patrick retired as a Utility Worker/Parks after 16 years with the City

New Hires:

- Brian Smiddy—Utility Worker/Stormwater *moved to Water Utility
- Paul Hessburg—Utility Worker/Stormwater *moved to Water Utility
- Charlotte Mitchell—Project Engineer
- Jerred Gardner—Utility Worker/Parks
- Matt Hatmaker—Utility Worker/Stormwater
- Erick Bradford—Utility Worker/Streets
- Andy O'Kelley—Utility Worker/Streets
- Jason Browning—Utility Worker/Parks



Public Services Center

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Wenatchee, WA 98801

Phone (509) 888-3200

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www.WenatcheeWa.gov

SHOWCASING OUR CITY



APWA Conference

The first week of October Public Works hosted the APWA (American Public Works Association) Conference in Wenatchee. The weather was perfect for the conference with highs in the mid 70's. The golf tournament had a spectacular turnout of 92 golfers, one player even got a hole in one! There were 468 registered attendees and 91 exhibitors, a record attendance for when the conference is held on the eastside of the mountains. There were 2 pre-conference workshops and 5 tracts of technical sessions, for a total of 30 technical sessions. The City's water, parks, fleet and street maintenance crews did an

outstanding job of manning the registration desk. The City received many comments on how warm, friendly, smiling and outgoing City staff were! Wenatchee's hospitality is legendary and the APWA Chapter President said Wenatchee "nailed the fall conference."

Fleet Tech Challenge

For the first time ever, the APWA Maintenance Committee had a "Fleet Tech Challenge", which was a technical session set up for fleet technicians to answer questions in a jeopardy like challenge. The City's Fleet Mechanics took top honors and their names will be the first to go on the traveling trophy! Way to go Kevin Patrick, Jason Munson and Lynn Kirk.



L to R: Don Bitterman, Andy Greer, Dan Frazier

Equipment Rodeo

The Washington Chapter of APWA held its Fourth Annual Equipment Rodeo at the Fall conference in Wenatchee. This year the event consisted of three events; a Dump Truck/Snow Plow Event, a Front Loader Event and a Backhoe Event. All three events require the operator to maneuver through obstacle courses where they are judged on both skill and speed.

The City of Wenatchee's Street Supervisor, Andy Greer, placed second in the Dump Truck/Snow Plow Event! He was also selected as one of three contestants who will have the opportunity to represent Washington State at the National APWA Event at the Western Snow and Ice Conference in Colorado this coming September. Congratulations Andy!

